ession#	Paper #	Area	Presenter	Company	Title	Duration	Start	Finish		
		All Times	<mark>are in US Central Ti</mark>	<mark>ime Zone (Austin</mark>	n, TX, USA). Please check your local time care	fully!				
	Please	Note that Da	ylight savings time	<mark>ends on Novem</mark> l	<mark>ber 1, 2 AM in USA, while it ended on Octobe</mark>	r 25, in Eu	rope.			
Tł	nere is no da	ylight Saving	<mark>time in Asia! Korea</mark>	and Japan will k	be ahead by 14 Hours on October 31 and 15	hours on N	lovember :	1!		
Version, October 26, 2020										
	7:30 AM,	Saturday, C	October 31, 2020	, Austin, TX, U	SA (1:30 PM, Netherlands / 9:30 PM I	Korea and	d Japan)			
EUVL Short Course										
Short Courses and Source Workshop require separate registrations. Please visit www.euvlitho.com for information.										
					AV Test and Speaker Check-in	0:30	7:30 AM			
			Vivek Bakshi	EUV Litho Inc.	Lecture	1:00	8:00 AM	9:00 AM		
			Jinho Ahn	Hanyang	Lecture	1:30	9:00 AM	10:30 AM		
				University						
					Break	0:15	10:30 AM	10:45 AM		
			Sascha Migura	Carl Zeiss	Lecture	1:30	10:45 AM	12:15 PM		
					Break	0:15	12:15 PM	12:30 PM		
			Patrick Naulleau	CXRO	Lecture	1:30	12:30 PM	2:00 PM		
			Vivek Bakshi	EUV Litho Inc.	Lecture, Summary and Q&A	0:30	2:00 PM	2:30 PM		
EUVL Short Course Adjourned										



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Session #	Paper #	Area	Presenter	Company	Title	Duration	Start	Finish			
7:30 AM, Sunday, November 1, 2020, Austin, TX, USA (2:30 PM, Netherlands / 10:30 PM Korea and Japan)											
	EUV and Soft X-ray Source Short Course										
Sh	ort Cours	es and Source	Workshop requ	iire separate re	gistrations. Please visit www.euvlitho.c	om for in	formatio	n.			
					AV Test and Speaker Check-in	0:30	7:30 AM	8:00 AM			
			Vivek Bakshi	EUV Litho Inc.	Introductions	0:10	8:00 AM	8:10 AM			
			Gerry O'Sullivan	UCD	Lecture	2:00	8:10 AM	10:10 AM			
					Break	0:15	10:10 AM	10:25 AM			
			David Attwood	UC Berkeley	Lecture	2:00	10:25 AM	12:25 PM			
					Break	0:15	12:25 PM	12:40 PM			
			Vivek Bakshi	EUV Litho Inc.	Lecture	1:30	12:25 PM	1:55 PM			
				Source Short	Course Adjourned						



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Session # Paper #	Area	Presenter	Company	Title	Duration	Start	Finish

7:30 AM, Monday, November 2, 2020, Austin, TX, USA (2:30 PM, Netherlands / 10:30 PM Korea and Japan)

Session 1: PSI EUVL Program Showcase

Please see Abstract Book on website for abstracts and co-author (s) information by paper #.

				AV Test and Speaker Check-in	0:30	7:30 AM	8:00 AM
		Session Co-Chair	s: Yasin Ekinci (I	PSI) and Vivek Bakshi (EUV Litho, Inc.)			
1	PSI Showcase	Vivek Bakshi	EUV Litho, Inc.	Introduction and Announcements	0:05	8:00 AM	8:05 AM
				An Overview of PSI and its Electron Accelerator-	0:15	8:05 AM	8:20 AM
				based Light Sources and the Semiconductor			
1 S61	PSI Showcase	Gabriel Aeppli	PSI	industry			
				Imaging of Integrated Circuits using 3D X-ray	0:20	8:20 AM	8:40 AM
1 S62	PSI Showcase	Mirko Holler	PSI	Ptychography			
				EUV Mask Inspection with the RESCAN APMI	0:15	8:40 AM	8:55 AM
1 S63	PSI Showcase	Ricarda Nebling	PSI	Tool: Effects of the Illumination NA			
				Toward High Resolution and Efficient	0:15	8:55 AM	9:10 AM
1 S64	PSI Showcase	Hyun-Su Kim	PSI	Reconstruction for EUV Actinic Mask Review			
				Allenet Image Blur Measurement using EUV	0:15	9:10 AM	9:25 AM
				Interference Lithography for the			
				Characterization of Resist and Exposure Tool			
1 S65	PSI Showcase	Timothee Allenet	PSI	Performances			
				Chemical Amplified Backbone Breaking	0:15	9:25 AM	9:40 AM
				Polymers: Designing New Resists for EUV			
1 S66	PSI Showcase	Theodoros Manouras	PSI	Lithography			
				Break	0:20	9:40 AM	10:00 AM
				Preliminary Design Considerations for an	0:20	10:00 AM	10:20 AM
				Electron Storage Ring with Application to EUV			
1 S67	PSI Showcase	Terence Garvey	PSI	Mask Inspection			
				Soft X-Ray ARPES at Swiss Light Source:	0:20	10:20 AM	10:40 AM
1 S68	PSI Showcase	Vladimir Strokov	PSI	Electronic Structure of Device Materials			
				Soft x-ray Photoelectron Spectroscopy for	0:20	10:40 AM	11:00 AM
1 S69	PSI Showcase	Matthias Muntwieler	PSI	Device Physics at the PEARL Beamline			
- 19							

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Session # Paper #	Area	Presenter	Company	Title	Duration	Start	Finish
1 S70	PSI Showcase	Florian Döring	Xrnanotech	A PSI Spin-Off for EUV and X-ray Optics	0:20	11:00 AM	11:20 AM
				AAT The Venture of Accelerating PSI's	0:20	11:20 AM	11:40 AM
1 S71	PSI Showcase	Jens Rehanek	AAT	Accelerator Technologies for the Industry			
				Displacement Talbot Lithography: A New	0:20	11:40 AM	12:00 PM
				Technology for Printing Periodic Nanostructures			
1 S72	PSI Showcase	Harun Solak	Eulitha	over Large Areas			



Session # Paper # Area Presenter Company Title Duration Start Finish

7:30 AM, Tuesday, November 3, 2020, Austin, TX, USA (2:30 PM, Netherlands / 10:30 PM Korea and Japan) Session 2: Code Comparison

Please see Abstract Book on website for abstracts and co-author (s) information by paper #.

				AV Test and Speaker Check-in	0:30	7:30 AM	8:00 AM
2		Vivek Bakshi	EUV Litho, Inc	Welcome and Announcements	0:05	8:00 AM	8:05 AM
		Session Co-C	hairs: John Sheil	(ARCNL) and Howard Scott (LLNL)			
					0:20	8:05 AM	8:25 AM
2 S91	Code Comparison	John Sheil	ARCNL	Code Comparison _ Problem Description			
			Osaka	Radiation Hydrodynamic Simulation Code	0:15	8:25 AM	8:40 AM
2 S92	Code Comparison	K. Nishihara	University	STAR2D (Invited)			
				JATOM Code for Calculation of Atomic	0:20	8:40 AM	9:00 AM
2 S93	Code Comparison	Akira Sasaki	QST	Processes in Sn Plasmas			
					0:20	9:00 AM	9:20 AM
2 S94	Code Comparison	Howard Scott	LLNL	LLNL Code Comparison Submissions (Invited)			
				Break	0:20	9:20 AM	
				Modeling Laser Energy Deposition with the	0:20	9:40 AM	10:00 AM
2 S95	Code Comparison	Mikhail Basko	hail Basko KIAM	RALEF Code (Invited)			
				THERMOS Toolkit: Software Package for	0:20	10:00 AM	10:20 AM
				Radiative Properties Calculations of LTE and			
2 S96	Code Comparison	Ilya Vichev	KIAM	Non-LTE Plasmas (Invited)			
			D :	Radiation Physics Models for High Energy	0:20	10:20 AM	10:40 AM
2 607		Lean Calle III	Prizm	Density Plasmas, Typical Applications for EUV			
2 S97	Code Comparison	igor Golovkin	Computations	Lithography (Invited)			
2.600		tale of tall	ABCNII	Atomic Kinetics Modelling of Sn Plasmas using	0:20	10:40 AM	11:00 AM
2 S98	Code Comparison	John Shell	ARCNL	ATOMIC (Invited)	0.00	44.00.444	44.00.444
2.600	C	Hills Frank		Non-LTE Atomic Physics in Laser Plasma	0:20	11:00 AM	11:20 AM
2 S99	Code Comparison	HIIIK Frank	LLNL	Simulations	0.00	44 20 444	44 40 414
2.64604	Cada Camanania	laha Chail	ADCNII	Code Communicate Communicate Disables 4	0:20	11:20 AM	11:40 AM
2 S100A	Code Comparison	John Shell	ARCNL	Code Comparison _ Comparison - Problem 1			



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Session #	Paper #	Area	Presenter	Company	Title	Duration	Start	Finish
						0:20	11:40 AM	12:00 PM
2	2 S100B	Code Comparison	Howard Scott	LLNL	Code Comparison _ Comparison - Problem 2			
						0:20	12:00 PM	12:20 PM
2	NA	Code Comparison	ALL		Discussion			



Session #	Paper #	Area	Presenter	Company	Title	Duration	Start	Finish
-	.20 ANA	Wadpasday	November 4, 202	O Austin TV	USA (2:20 DNA Notharlands / 10:20 DN	1 Voros	and lana	m \
′	:50 AIVI	•	•		USA (2:30 PM, Netherlands / 10:30 PN		ano Japa	n)
		Sessio	ns 3-5 : Keyr	note, Lase	rs, Metrology and Applicati	ons		
		Please see Ab	stract Book on we	ebsite for abst	racts and co-author (s) information by	paper #.		
					AV Test and Speaker Check-in	0:30	7:30 AM	8:00 AM
			Vivek Bakshi	·	Introduction and Announcements	0:05	8:00 AM	8:05 AM
				Session Co-Chair	s: Reza Abhari (ETHZ)			
				o	Update of >300W High Power LPP-EUV Source	0:40	8:05 AM	8:45 AM
	3 S1	Keynote	Hakaru Mizoguchi	Gigaphoton	Challenge for Semiconductor HVM	0.40	0.45.444	0.05.444
	2 62	Vounato	Lariesa lusebkin	KLA	Source Performance Metrics for EUV Mask	0:40	8:45 AM	9:25 AM
	3 S2	Keynote	Larissa Juschkin	Corporation	Inspection Evolving Source Demands and Requirements for	0:40	0.25 414	10:05 AM
	3 S3	Keynote	Steve Carson	Intel	EUV Lithography in Manufacturing	0.40	9.25 AIVI	10.05 AIVI
•	3 33	Reynote	Steve carson	inter	Break	0:20	10:05 AM	10:25 AM
					276411	0.20		
			Session Co-C	hairs: Peter Kraus	(ARCNL) and Martin Smrz (HiLASE)			
				ARCNL	Ultrafast Extreme-ultraviolet Emission from	0:20	10:25 AM	10:45 AM
	4 S11	Lasers	Peter Kraus	ANCINE	Solids (Invited)			
					Industrial kW-class Picosecond Thin-disk Lasers	0:20	10:45 AM	11:05 AM
	4 S12	Lasers	Martin Smrz	HILASE	for EUV Light Sources (Invited)			
•	4 S13	Lasers	Thomas Metzger	Trumpf	Ultrafast Thin-Disk Amplifiers (Invited)		11:05 AM	
		Break			Break	0:20	11:25 AM	11:45 AM
			Session Co-Cha	irs: Fergal O'Reilly	y (UCD) and Yusuke Teramoto (Ushio)			
		Metrology and	Session co cha	ms. reign o kem		0.20	11:45 AM	12:05 PM
	5 S14	Applications	Fergal O Reily	UCD	A Laboratory Soft X-ray Microscope (Invited)	0.20	111107111	12.05
		Metrology and			In-lab EUV Dual Beamline for Industrial and	0:20	12:05 PM	12:25 PM
	5 S15	Applications	Sascha Brose	RWTH-Aachen	Scientific Applications			
		Metrology and			Light Source Development for Mask and Wafer	0:20	12:25 PM	12:45 PM
	5 S21	Applications	Marco Weber	ETHZ	Inspection HVM tools			

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Session # Paper #	‡ Area	Presenter	Company	Title	Duration	Start	Finish
	Metrology and			High-brightness LDP source for actinic	0:20	12:45 PM	1:05 PM
5 S23	Applications	Yusuke Teramoto	Ushio	patterned mask inspection (Invited)			



October 3	1 - Noven	1ber 5, 2020		2020 Source	worksnop - Final Agenda		неіа		
Session #	Paper #	Area	Presenter	Company	Title	Duration	Start	Finish	
	7:30 AN	/I, Thursday, I	November 5, 2020	, Austin, TX, U	ISA (2:30 PM, Netherlands / 10:30 PM	Korea aı	nd Japan)		
	Sess	sions 6-9:	Speed Prese	ntations,	HVM Sources, EUVL Extensi	on - B	lue-X		
		Please see Al	bstract Book on w	ebsite for abst	tracts and co-author (s) information by	paper #.			
					AV Test and Speaker Check-in	0:30	7:30 AM	8:00 AM	
			Vivek Bakshi	EUV Litho, Inc.	Introduction and Announcements	0:05	8:00 AM	8:05 AM	
			S	ession Co-Chairs:	Vivek Bakshi (EUV Litho)				
e	5 S31	Speed Presentation	Hiromu Kawasaki	Utsunomiya University	Energy Spectra of Suprathermal Gadolinium lons for Beyond Extreme-ultraviolet Source	0:05	8:05 AM	8:10 AM	
						0:05	8:10 AM	8:15 AM	
		Speed		Utsunomiya	Development of Yb:YAG Thin-disk Regenerative				
6	5 S32	Presentation	Misaki Shoji	University	Amplifier for Compact Plasma EUV Sources Stimulated Emission Depletion Phenomenon in Luminescence of Scintillator Excited by Soft x-	0:05	8:15 AM	8:20 AM	
		_							

					0.05	O.TO AIVI	O.13 AIVI
	Speed		Utsunomiya	Development of Yb:YAG Thin-disk Regenerative			
6 S32	Presentation	Misaki Shoji	University	Amplifier for Compact Plasma EUV Sources			
				Stimulated Emission Depletion Phenomenon in	0:05	8:15 AM	8:20 AM
				Luminescence of Scintillator Excited by Soft x-			
	Speed		Utsunomiya	ray toward High-resolution Water-window			
6 S33	Presentation	Takeshi Higashiguchi	University	Microscope			
	Speed			High-energy Features in the Ion energy	0:05	8:20 AM	8:25 AM
6 S34	Presentation	Lucas Poirier	ARCCNL	Distribution from Laser-produced Tin Plasmas			
				Interactions of Sn ions at Energies and in Charge	0:05	8:25 AM	8:30 AM
	Speed	Subam Rai		States Relevant to the Mitigation of Sn Ions			
6 S35	Presentation		ARCNL	coming from EUV Sources			
	Session Co-C	Chairs: Kentaro Tomita	(Kyushu Univer	sity) and Takeshi Higashiguchi (Utsunomiya University	()		
				Development Progress of the CO2 Laser and	0:20	8:30 AM	8:50 AM
	HVM EUV Sources	Yuichi NISHIMURA		Shooting Control System for the High Power LPP-			
7 S41	-1		Gigaphoton	EUV light source			
	HVM EUV Sources		Kyushu	Recent Diagnostics Results of EUV Source and	0:20	8:50 AM	9:10 AM
7 S42	-1	Kentaro Tomita	University	EUV Induced Plasmas (Invited)			
				Feature of Highly-charged Suprathermal Ions	0:20	9:10 AM	9:30 AM
	HVM EUV Sources		Utsunomiya	from Laser-produced Plasma EUV sources			
7 S43	-1	Takeshi Higashiguchi	University	(Invited)			

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Session #	Paper#	Area	Presenter	Company	Title	Duration	Start	Finish
		HVM EUV Sources			The Morphology of Liquid Tin Sheet Targets.	0:20	9:30 AM	9:50 AM
	9 S48	-1	Bo Liu	ARCNL	The Morphology of Elquid Thi Sheet Turgets.			
		Break			Break	0:10	9:50 AM	10:00 AM
			Session Co-Ch	airs: Ladislav Pina	a (Rigaku) and James Colgan (LANL)			
					Present Status of cERL-FEL as a Proof of Concept	0:20	10:00 AM	10:20 AM
		EUVL Extension -			on the EUV-FEL High-power Light Source for			
	8 S51	Blue- X	Hiroshi Kawata	KEK	Future Lithography (Invited)			
		EUVL Extension -		Tsinghua	High-power EUV Light Source Based on Steady-	0:20	10:20 AM	10:40 AM
	8 S52	Blue- X	Xiujie Deng	University	state Microbunching Mechanism			
		EUVL Extension -			7nm and below: A Study for Undulators as an	0:20	10:40 AM	11:00 AM
	8 S53	Blue- X	Thomas Grandsaert	Lund University	EUV Source			
		EUVL Extension -			Characterization of Tin Plasma Driven by High-	0:20	11:00 AM	11:20 AM
	8 S54	Blue- X	Lars Behnke	ARCNL	energy, 2-μm-wavelength Light			
					Angular and Spectral Bandwidth of XUV	0:20	11:20 AM	11:40 AM
		EUVL Extension -		University of	Multilayers Near Spacer Material Absorption			
	8 S55	Blue- X	Andrey Zameshin	Twente	Edges			
		EUVL Extension -				0:20	11:40 AM	12:00 PM
	8 S56	Blue- X	Vivek Bakshi	EUV Litho	EUVL Extension - Blue-X: An Update			
					Break	0:20	12:00 PM	12:20 PM
			Session Co-Chair	s: Oscar Versolat	o (ARCNL) and Gerry O'Sullivan (UCD)			
		HVM EUV Sources			2020 Source Workshop Invited Presentation	0:20	12:20 PM	12:40 PM
	9 S44	-2	Michael Purvis	ASML	(Tentative title)			
					Physics aspects of Solid-state-laser-driven	0:20	12:40 PM	1:00 PM
		HVM EUV Sources			Plasma Sources of EUV light: ARCNL's Source			
	9 S45	-2	Oscar Versolato	ARCNL	Research program (Invited)			
		HVM EUV Sources			Interactions of Tin Ions in and around LPP-EUV	0:20	1:00 PM	1:20 PM
	9 S46	-2	Ronnie Hoekstra	ARCNL	Sources (Invited)			
		HVM EUV Sources			The Opacity of Sn at Conditions Relevant to CO2	0:20	1:20 PM	1:40 PM
	9 S47	-2	James Colgan	LANL	Laser-produced Plasmas			



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Session # Paper	# Area	Presenter	Company	Title	Duration	Start	Finish
				The EUV-Lamp: Compact EUV source for Actinic	0:20	1:40 PM	2:00 PM
	HVM EUV Sources		Research	EUV Metrology in Laboratory and Industry			
9 S22	-2	Rainer Lebert	Instruments	(Invited)			
	HVM EUV Sources			Compact rotating-disc LPP source for metrology	0:20	2:00 PM	2:20 PM
9 S24	-2	Yusuke Teramoto	Ushio	and laboratory applications			
		Vivek Bakshi	EUV Litho, Inc.	Announcements	0:10	2:20 PM	2:30 PM
				Workshop Adjourned			

